Mert Ali Türk

Embedded Software Developer

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https://www.linkedin.com/in/mturk-/ https://github.com/mert-turk

https://www.youtube.com/@MertTurkk

PROFILE

Currently pursuing an M.Sc. in Embedded System Design at Hochschule Bremerhaven. Skilled in C/C++ and VHDL, with hands-on experience using SoCs such as the Arty Z7 and ZedBoard, as well as various microcontrollers such as STM32F4/7 . I enjoy creating and developing innovative embedded solutions and am excited about roles that allow creativity and technical problem-solving. Open to relocation and flexible with working hours.

SKILLS

Programming Languages:
C/C++ , VHDL , Python

Development Tools:
AMD Vivado, AMD Vitis ,Petalinux STM32CubeIDE , KEIL uVision , Eclipse IDE, VSCode Cortex Debug , Code Composer Studio , IAR EW , Matlab /Simulink , Stateflow , IBM Rhapsody, QM Modeling Tool, Version Control Systems (Git) , GitLab , Make/Makefile , CMake , Docker , CI/CD , CppUnitTest , UML, IBM DOORS, Isograph Reliability Workbench

Operating Systems & Frameworks
Embedded Linux , Linux Programming , Yocto Project , Petalinux , ThreadX , FreeRTOS , uC/OS-ii , QP

Protocols & Standarts:
Ethernet , CAN , UART , I2C , SPI , DMA , MISRA-C/C++ , AUTOSAR, DO-178B/C, ARINC 653, ARP4761, ARP4754

Embedded Boards:
Zynq Zedboard , Arty Z7 , STM32F4 (ARM-CORTEX M4) , STM32C0(ARM-CORTEX M0+) , TI Stellaris , ESP32

Testing Methodologies:
Software-in-the-Loop (SIL) Testing, MIL Testing w/Simulink, Embedded Software Verification & Validation

PROFESSIONAL EXPERIENCE

ESENYURT BELEDIYESI 07/2024 – 09/2024
Electrical Engineer Intern Turkey

- Gained hands-on experience in technical documentation, systematic problem-solving, and adherence to industry standards (ISO/IEC 27002:2022) in a technical environment.

EDUCATION

Hochschule Bremerhaven 04/2025 – Present
M.Sc. in Embeddded System Design Germany

- Model-Based /Real-Time Software Development , Digital Design ,C/C++ , VHDL , System On Chip(SoC), Requirement Engineering, Safety and Reliability(ARP4761)

Zonguldak Bülent Ecevit Üniversitesi 09/2018 – 06/2024
B.Sc. Electrical and Electronic Engineering (GPA : 3,13) Turkey
- Thesis: "*Road-Embedded Solar Panel Integrated Wireless Electric Vehicle Charging System*" — designed an IoT-based energy management system using microcontroller for control and data transmission to the cloud for real-time analysis and visualization.

Universidade Vigo 01/2021 – 06/2021
Telecommunacition Engineering (Erasmus+ Exchange Student.) Spain
- Specialized in telecommunications, computer networks, and C/C++ programming languages.

AWARDS

Finalist: in der CAMPUSiDEEN 2025 12/11/2000
BRIDGE gründen aus Bremer Hochschulen
- EcoOptima is an initiative focused on energy optimization and has successfully advanced to the finals among more than 100 ideas.

LANGUAGES

English
Proficient- TOEFL IBT: 72

German
Beginner - Goethe A1

ORGANIZATIONS

Ateşböceği
Core Member Of Ateşböceği Organization

- Volunteered for Ateşböceği Derneği, a non-profit organization supporting children and animals in need.